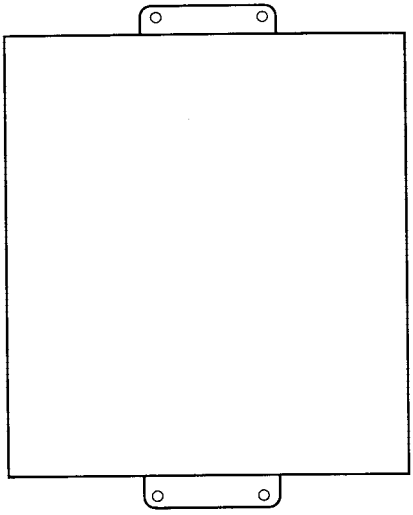
Clarion

TTX001



TV TUNER

OWNER'S MANUAL

INTRODUCTION

The Clarion TTX001 is a TV Tuner. It can be integrated into a mobile multimedia system. It has a number of features, including:

- Two types of wiring permitted - stand alone or with VMA1131
- Quick tuning to your desired stations
- Stereo broadcast reception
- Video/audio (stereo) output jacks
- Display function when using audio

ABOUT THE MANUAL AND WARRANTY

To start enjoying your new Clarion TTX001 TV Tuner, please read the instructions listed in this manual. Keep all instructions for future reference. Please fill out and send in the enclosed warranty card to protect your purchase and aid in warranty service. Also, **save your original sales receipt as proof of purchase.**

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PRECAUTIONS

1. This unit is for use in DC 12V, negative ground vehicles.
2. Do not operate the unit in ways other than described in this guide. Doing so may damage it and may void your warranty.
3. SAFETY FIRST! For rear seat use only. Do not install monitors displaying video information anywhere that would permit viewing by the driver. Monitors must not be located in the motor vehicle at any point forward of the back of the front seats. Monitors must never be used in any manner that will distract driver or interfere with driver's safe operation of the motor vehicle.
4. Be careful not to run down the car battery while using the unit with the car stopped.
5. Do not disassemble or modify the unit. Doing so may damage it and voids your warranty.
6. Keep drinks and drops from umbrellas away from the unit. Water may damage the internal circuitry.

7. Do not let the unit become hot. If temperature in the car is high or the set has been exposed to direct sunlight and is hot, lower the temperature before using it.

DESCRIPTION

The Clarion TTX001 TV tuner has a number of exceptional features. For instance, the TTX001 allows two types of wiring: stand alone or with the Clarion VMA1131.

It also has preset tuning (for a total of 12 VHF/UHF stations), manual tuning and automatic tuning to permit easy tuning of the desired broadcast stations.

PACKAGE CONTENTS

The TTX001 comes with the following items:

- TV tuner
- RC-300 remote control
- 16 pin to A/V, IR and power inputs
- IR Receiver
- A/V RCA cable
- Power harness
- 3.5mm Male to Male IR extension
- Y connector for IR

CONNECTOR LOCATIONS

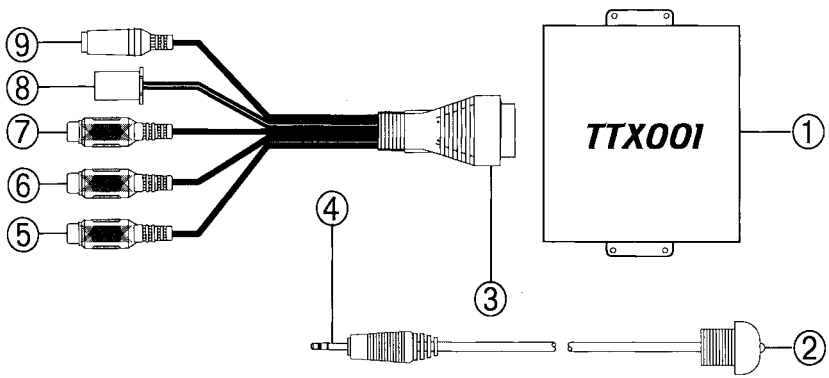


Figure 1-

① 3.5mm Antenna Connector
② IR Sensor
③ Connector
④ IR Sensor Connector
⑤ Video Output Connector
⑥ R Audio Output Connector
⑦ L Audio Output Connector
⑧ Power Connector
⑨ IR Input Connector

WIRING PRECAUTIONS

Read all wiring precautions. If you are not sure of the connections, contact your authorized Clarion dealer.

1. Disconnect the negative (-) lead of the battery before making any power connections.
2. When creating passage holes for the power wires, use grommets to eliminate any sharp edges created during drilling. This will protect the wire from being nicked and causing a short circuit.
3. When connecting the ground lead, fasten the ground lead (black) securely to a clean metal plate on the vehicle.

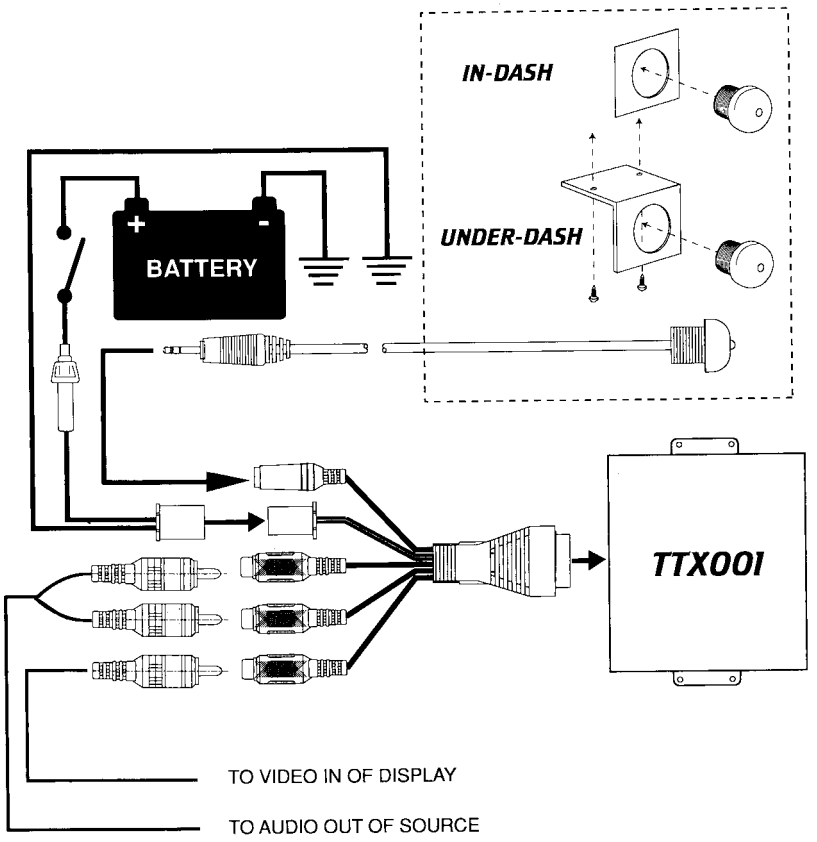


Figure 2- Wiring

APPLICATIONS

The TTX001 can be operated in a number of applications. Find yours below.

With the VMA1131

1. Place tuner into the channel on the back of the monitor and slide the tab into the slot. Mount tuner with the two machine screws supplied.
2. Plug the 16 to 16 pin cable (supplied with the monitor) into the tuner and the back of the monitor.
3. Mount the antenna (ZCB-003 or equivalent) and plug into the antenna input of the tuner.
4. Plug the power connector into the monitor and connect to vehicle accessory and ground.

Operation

- The tuner can be controlled by the buttons on the monitor or by the remote control.

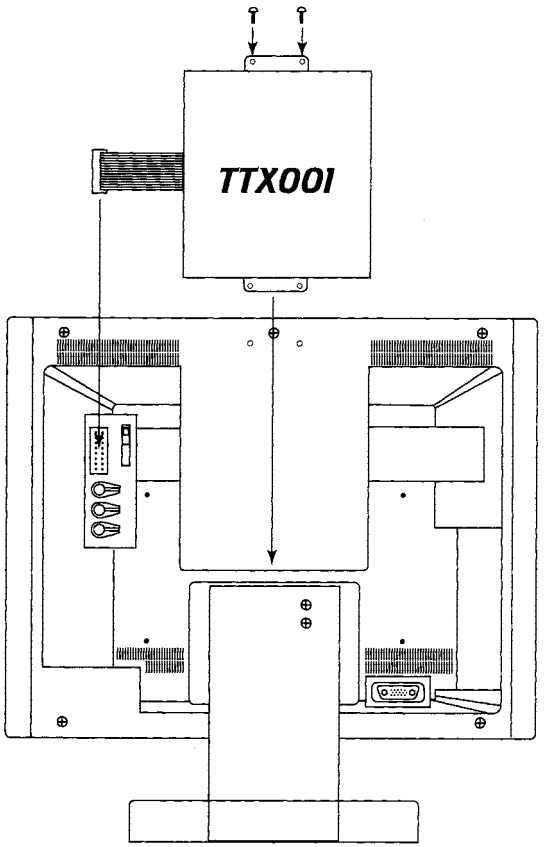


Figure 3- TTX001 with VMA1131

With the VDH9600, OHM641 and the FM100S

1. Pick a location to mount the tuner. Typically the tuner will be located close to the VCP. Avoid areas with excessive heat or moisture and mount the tuner.
2. Mount the TV antenna (ZCB-003 or equivalent) and plug into the tuner.
3. Plug the 16 pin to A/V out connector into the tuner. Plug the A/V RCA cables, IR extension and power plug into the 16 pin connector and run to the video player.
4. Plug the A/V RCA cable into the A/V input of the player. Plug the Y connector into the player and plug the IR extension into the Y connector.
5. At the OHM641, plug the IR extension and power cables supplied with the OHM641. Run these cables to the back of the video player. Plug the video RCA into the video output of the player. Plug the IR extension into the other leg of the Y connector. Tie all the power wires together. These wires will be run to the radio location.
6. Plug the audio RCA cable into the audio output of the player and run the audio RCA and main power cables to the radio location. Remove the radio and plug the audio RCA into the FM100S audio inputs.
7. Mount the switch for the FM100S and run its power wire to the radio location. The power and ground wires of the TTX001, video player, OHM641 and the FM100S can be joined and connected to the radio accessory and ground wires.
8. Plug the vehicle antenna into the antenna input of the FM100S. Plug the antenna output of the FM100S into the radio.
9. The FM 100S has a two position switch to select the modulation frequency. Pick the frequency that has the least amount of radio reception and set that frequency on the modulator and into a radio preset memory.

APPLICATIONS

Operation

- Similar to a home system, the VDH9600 allow their auxiliary A/V inputs to loop through to their A/V outputs when they are not playing a video tape.
- Because the IR lines have been linked together, each component can be controlled by its respective remote control when pointed to the IR eye located on OHM641.
- Turn the vehicle ignition switch to the accessory position. Point the video player remote at the IR eye and press power to turn on the player. Point the remote (RC-300) at the IR eye and press power to turn on the tuner.
- You should now see the TV displayed on the monitor.
- Turn the modulator and the radio on and tune to the modulated frequency. Turn the FM100S's switch on. The audio can now be heard over the sound system. You can control the video player and the TV tuner by pointing their respective remotes at the IR eye in the monitor.

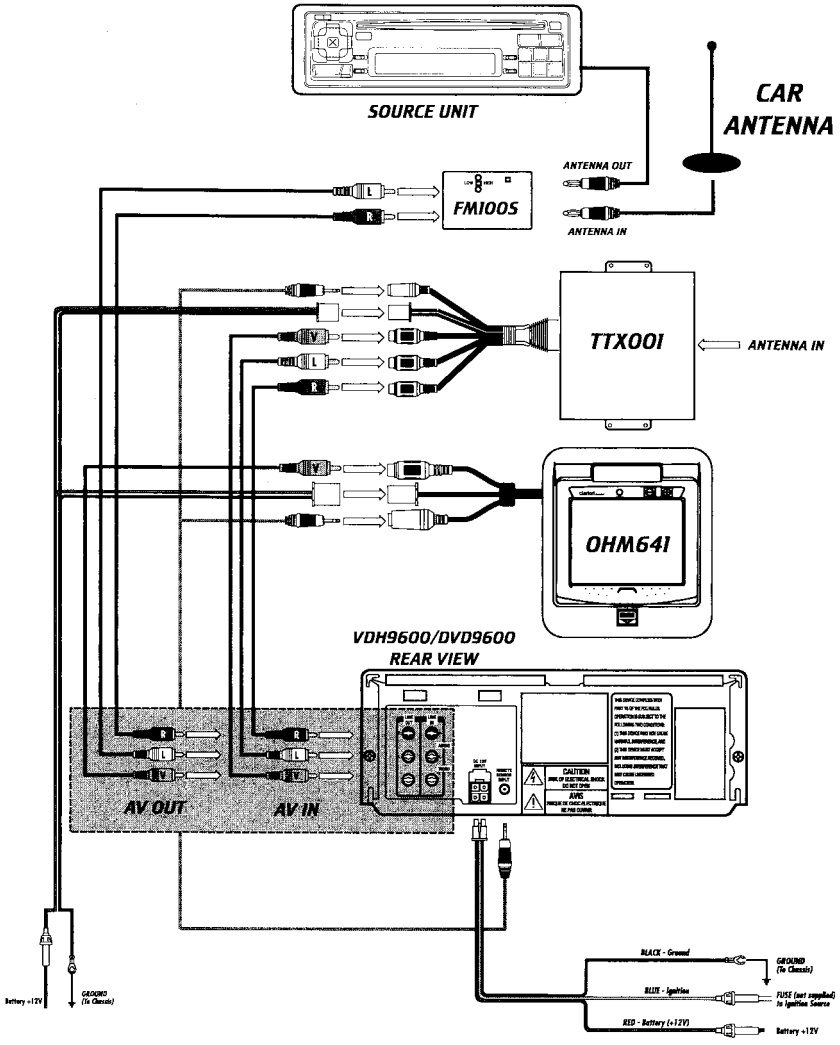


Figure 4- TTX001 with OHM641, VDH9600 and FM100S

Stand alone with the OHM641 and the WH100

1. Pick a location to mount the tuner. Avoid areas with excessive heat or moisture and mount the tuner. Plug the 16 pin to A/V output connector into the tuner.
2. Mount the TV antenna (ZCB-003 or equivalent) and plug into the tuner.
3. At the OHM641, plug in the video RCA, IR extension and power cables supplied with the OHM641 and run to the tuner. Plug the video RCA and IR extension into the tuner.
4. At the WH100 transmitter, plug in the audio RCAs and power connector and run the cables to the TV tuner. Plug the RCAs into the audio output of the tuner.
5. Tie all the ground wires to a good ground point. Connect all the power wires together and run to a fused accessory wire in the vehicle.

Operation

- Point the TV remote (RC-300) at the OHM641 and press power. You should now see the TV displayed on the monitor and can control the TV tuner functions with its remote.
- Turn on the headphones with its power switch to listen to the audio.

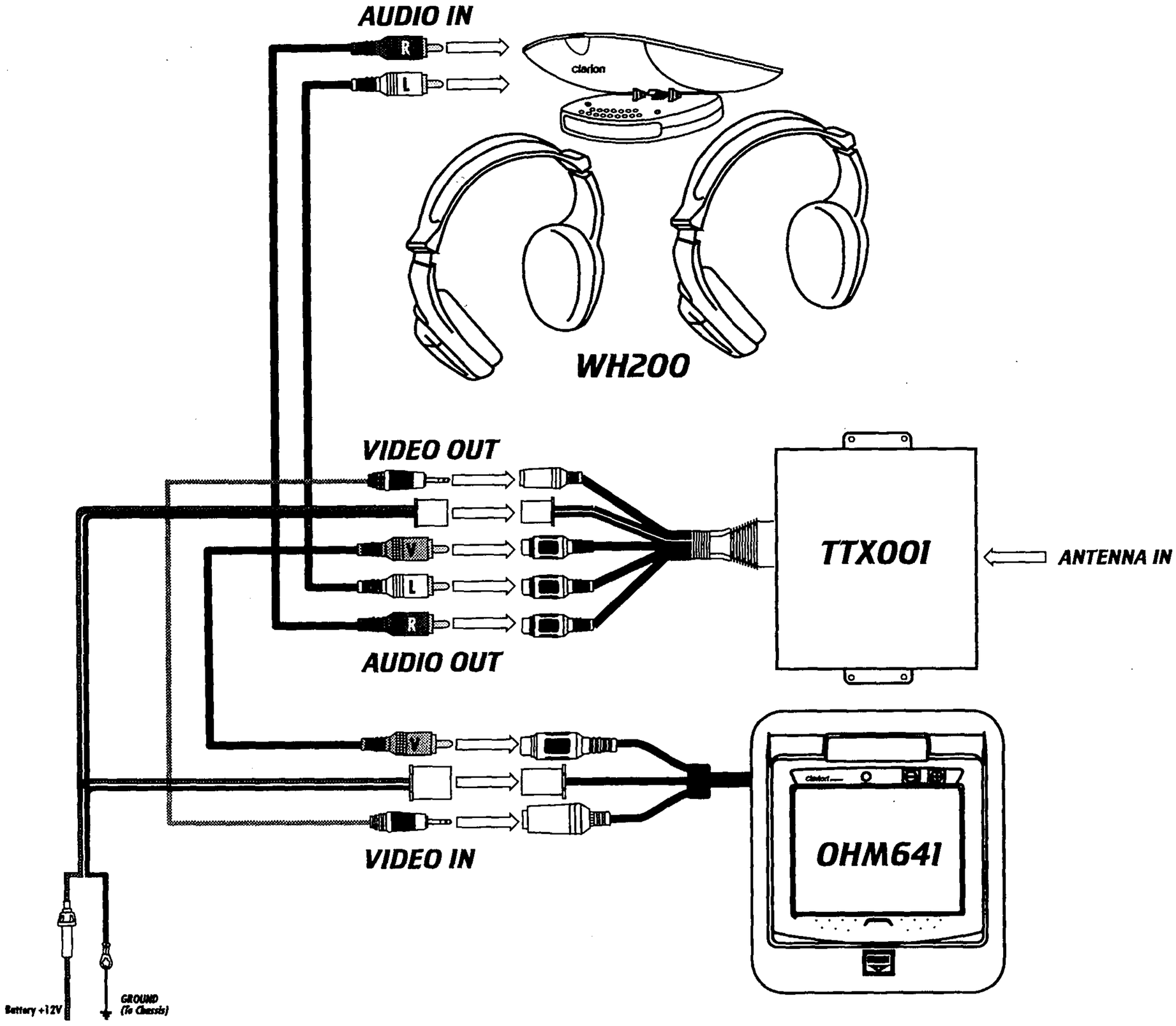


Figure 5- TTX001 with OHM641 and WH200

REMOTE CONTROL BATTERY INSTALLATION

- Insert 2 AAA batteries into the compartment located on the back of the unit, observing the proper polarity.

NOTES:

- *Each time you change the batteries, you must reprogram the channels.*
- *We suggest you use alkaline batteries; do not use rechargeable batteries.*
- *Always change all the batteries at the same time.*

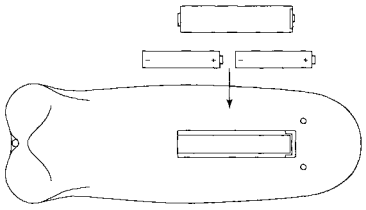
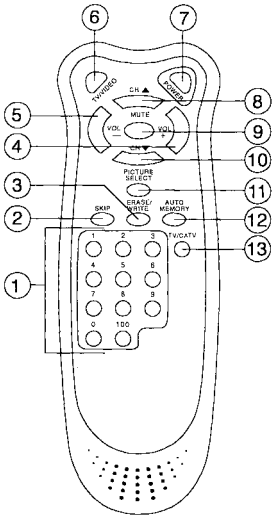


Figure 6- Remote Control Battery Installation

REMOTE CONTROL OPERATION

- To use the remote control, press the Power button to turn on the remote.
- Press the TV/VIDEO button to select the source to be controlled by the remote.
- The VOL(ume) +/- buttons and the MUTE button control the TV volume.



① Number Pad
② Skip
③ Erase/Write
④ Volume Up
⑤ Volume Down
⑥ TV/Video
⑦ Power
⑧ Channel Up
⑨ Mute
⑩ Channel Down
⑪ Picture Select
⑫ Auto Memory
⑬ TV/CATV

Figure 7- Remote Control Operation

TROUBLESHOOTING

Before assuming malfunction of the unit, check the following:

Problem:
No power.
Solution:
- The fuse may be burned out. Replace the fuse with one of the same rating.
- The wiring is incomplete. Check the wire connections and connect them properly.

Problem:
The picture is unclear.
Solution:
- The reception condition is poor. This may due to an insufficient signal arriving due to being in the shadow of mountains or buildings. Check again in a location exposed to a stronger signal.

Problem:
The picture is double or triple.
Solution:
- There is an interfering broadcast. The signal might be reflected from mountains or buildings. Check by changing location or direction.

Problem:
The picture has a flecked or lined pattern.
Solution:
- There may be effects from cars, trains, neon signs, or other interfering signals. Check by changing location.

Problem:
No sound.
Solution:
- (Only for FM modulator wiring) Check that the frequency of the vehicle stereo is matched (88.3 MHz or 88.7 KHz).

Problem:
A control does not function.
Solution:
- Incorrect setting of the position switch. Check whether the setting matches the details of the wiring.

PRODUCT SPECS

Power Source Voltage:	DC 11-15V
Power Consumption:	1.5A max. (1.5A or less)
Operation Temperature:	30 - 113 degrees F

NOTES

Clarion
CAR AUDIO & BEYOND

661 W. Redondo Beach Blvd.
Gardena, CA 90247
1-800-GO-CLARION
www.clarion-usa.com

TTX001-10 Rev.2 (03/00)

Clarion®
CAR AUDIO & BEYOND

Product Registration

for USA and Canada only

IMPORTANT:

1. Detach this section of the card and keep it with your records.
2. Retain your sales receipt to validate warranty service.
3. If you purchased a Clarion ADX Series, Pro Video or Pro Audio product, be sure to complete the box on the last page of this form.

Information on Clarion authorized Warranty Centers
may be obtained by writing Clarion Corporation at the address below
or by calling

1-800-GO-CLARION.

In USA:
Clarion Sales Corporation
Warranty Service Center
661 West Redondo Beach Blvd.
Gardena, CA 90247
(310) 327-9100

In Canada
Clarion Canada, Inc.
Warranty Service Center
2239 Winston Park Drive
Oakville, Ontario L6H 5R1
(416) 829-4600

www.clarionmultimedia.com

Clarion WARRANTY INFORMATION

TEAR THIS PAGE OFF AND KEEP IT WITH YOUR RECEIPT!

Model Number | Serial Number | $ Price Paid (before tax)

Retailer/Dealer Name

Retailer/Dealer Phone w/Area Code | Date Installed: Month Day Year

This product is warranted against all defects in material workmanship for a period of one year from the date of original purchase. The conditions of this warranty and the extent of the responsibility of Clarion Corporation under this warranty are as follows:

1. **PROOF OF DATE OF PURCHASE WILL BE REQUIRED FOR WARRANTY SERVICE OF THIS PRODUCT. INFORMATION ABOUT CLARION AUTHORIZED WARRANTY SERVICE CENTERS MAY ALSO BE OBTAINED BY CONTACTING OR WRITING CLARION CORPORATION AT THE ADDRESS LISTED ON THE FRONT OF THIS CARD.**
2. This warranty will become void if service performed by anyone other than an approved Clarion Warranty Service Center results in damage to product.
3. This warranty does not apply to any product which has been subject to misuse, neglect or accident, or which has had the serial number altered, defaced or removed, or which has been connected, installed, adjusted or repaired, other than in accordance with the instructions furnished by Clarion Corporation.
4. This warranty does not cover car static or other electrical interferences, tape head cleaning or adjustments, or labor costs for the removal or reinstallation of the unit for repair.
5. The sole responsibility of Clarion Corporation under this Warranty shall be limited to the repair or replacement thereof, at the sole discretion of Clarion Corporation.
6. If it becomes necessary to send the product or any defective part to Clarion Corporation or an authorized warranty service station, the product must be shipped in its original carton or equivalent carton, fully insured, with shipping charges prepaid. Clarion Corporation will not assume any responsibility for any loss or damage incurred in shipping.
7. ALL IMPLIED WARRANTIES EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW SHALL HAVE NO GREATER DURATION THAN THE WARRANTY PERIOD SET FORTH ABOVE. UNDER NO CIRCUMSTANCES SHALL CLARION CORPORATION BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. BECAUSE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.
8. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
9. Should you have any difficulties with the performance of this product during warranty, or with any Clarion authorized service centers, you may contact the Clarion National Service Managers at the address listed on the front of this card or call 1-800-GO-CLARION for a listing of Authorized Warranty Service Centers in your area.

Clarion PRODUCT REGISTRATION CARD

Thank you for selecting a high-quality product from Clarion. We hope you are completely satisfied with your purchase. We'd like to help serve you better by finding out more about your reasons for choosing Clarion. Please take a few moments to fill out the registration information on this card and answer a few questions about yourself and your product. Then, return the card to Clarion within 10 days of purchase. Your answers will be kept strictly confidential. We appreciate your response!

In Canada, place the card in an envelope and mail to:
Clarion Canada, Inc., Warranty Service Center, 2239 Winston Park Drive, Oakville, Ontario L6H 5R1.

1 ☐ Mr. ☐ Ms. ☐ Mrs. ☐ Miss

First Name | M. I. | Last Name

Mailing Address | Apt. No.

City | State/Prov. | Zip/Post Code

Phone w/Area Code | Date of Purchase: Month | Day | Year

2 What Clarion product did you purchase?

Multimedia

1 ☐ Color LCD Display/Control Unit
2 ☐ Color LCD Display
3 ☐ Voice-Activated Navigation System
4 ☐ Video Cassette Player
5 ☐ TV Tuner
6 ☐ Rear Vision Camera
7 ☐ Other _____

Car Audio

8 ☐ AM/FM Cassette
9 ☐ AM/FM CD Player
10 ☐ AM/FM Cassette/CD Player
11 ☐ CD Changer
12 ☐ Equalizer/DSP Processor Module
13 ☐ Amplifier
14 ☐ Speakers

Model Number | Serial Number | $ Price Paid (before tax)

3 What is the name of the store where you purchased this product?

Retailer/Dealer Name

City | State/Prov.

4 **What is your age?** *(Optional)* 1 ☐☐ **Marital Status?** *(Optional)* 2 ☐ Married 3 ☐ Single

5 **Are there any children in your household?** 1 ☐ Yes 2 ☐ No

If yes, please specify age range: 3 ☐ 1 - 12 4 ☐ 13 -16 5 ☐ 17 & up

6 **What is the highest level of education you have completed?**

1 ☐ Some High School
2 ☐ High School Graduate
3 ☐ Some College
4 ☐ Completed College
5 ☐ Some Graduate School
6 ☐ Completed Graduate School
7 ☐ Vocation/Technical School

7 **What best describes your primary occupation?**

1 ☐ Professional/Technical
2 ☐ Upper Management/Executive
3 ☐ Middle Management
4 ☐ Sales/Marketing
5 ☐ Clerical/Service Worker
6 ☐ Tradesman/Machine Operator/Laborer
7 ☐ Self-Employed/Business Owner
8 ☐ Food Service
9 ☐ Homemaker
10 ☐ Student
11 ☐ Retired
12 ☐ Other

8 **What is your annual household income?** *(Optional)*

1 ☐ Under $10,000
2 ☐ $10,000 - $19,999
3 ☐ $20,000 - $29,999
4 ☐ $30,000 - $39,999
5 ☐ $40,000 - $49,999
6 ☐ $50,000 - $59,999
7 ☐ $60,000 - $69,999
8 ☐ $70,000 - $79,999
9 ☐ $80,000 - $89,999
10 ☐ $90,000 - $99,999
11 ☐ $100,000 and over

9 **Which factors influenced you the MOST in choosing this Clarion Product?**

Group A (Please check two)

1 ☐ Newspaper Advertisement
2 ☐ TV Commercial
3 ☐ Radio Commercial
4 ☐ Magazine Advertisement
5 ☐ Recommended by Friend/Family
6 ☐ Clarion Name/Reputation
7 ☐ Recommended by Store Salesperson
8 ☐ On-line Information
9 ☐ Clarion Web Site
10 ☐ Store Display
11 ☐ Special Promotion
12 ☐ Other

Group B (Please check two)

13 ☐ Warranty
14 ☐ Price
15 ☐ Quality/Reliability
16 ☐ Features
17 ☐ Appearance/Design
18 ☐ Ease of Operation
19 ☐ Other

10 **What type of music do you listen to most often? (Please check one)**

1 ☐ Rock
2 ☐ Jazz
3 ☐ Blues
4 ☐ Pop
5 ☐ Country
6 ☐ Classical
7 ☐ Rap
8 ☐ Rhythm & Blues
9 ☐ Reggae
10 ☐ New Age
11 ☐ Easy Listening
12 ☐ Alternative

11 Which of the following products/services do you own or intend to buy within the next 18 months?

	Own	Intend to buy		Own	Intend to buy
Home Desktop PC	1 ☐	9 ☐	Satellite System/Service	17 ☐	24 ☐
Laptop Computer	2 ☐	10 ☐	Cellular Telephone	18 ☐	25 ☐
Color Monitor	3 ☐	11 ☐	Pager	19 ☐	26 ☐
CD-ROM	4 ☐	12 ☐	Call Waiting	20 ☐	27 ☐
Computer Speakers	5 ☐	13 ☐	Karaoke	21 ☐	28 ☐
Color Printer	6 ☐	14 ☐	Vehicle Navigation System	22 ☐	29 ☐
Modem	7 ☐	15 ☐	Vehicle Security System	23 ☐	30 ☐
Large Screen TV (35" or larger)	8 ☐	16 ☐			

12 Is this your first Clarion purchase? 1 ☐ 1st purchase 2 ☐ 2nd purchase 3 ☐ 3rd or more

13 What type of computer do you own?

1 ☐ IBM PC or Clone 2 ☐ Macintosh or Clone 3 ☐ Do Not Own

14 Which on-line service/network do you subscribe to?

1 ☐ America Online 4 ☐ MSN 7 ☐ Other
2 ☐ CompuServe 5 ☐ Internet 8 ☐ Do not have service/access
3 ☐ GEnie 6 ☐ Prodigy

ADX SERIES, PRO VIDEO & PRO AUDIO WARRANTY INFORMATION

Clarion offers two-year warranty coverage on ADX Series, Pro Video, and Pro Audio products (excluding speakers) **ONLY** if the product is installed at the same location where purchased. If not installed by the authorized dealer, one-year warranty coverage is provided.

To obtain two-year warranty coverage on your Clarion ADX Series, Pro Video, or Pro Audio product, excluding speakers, complete this section in full and return it along with a copy of your receipt and the attached product registration information in an envelope addressed to:

Clarion Sales Corporation
P.O. Box 863
Brea, CA 92822-0863

Retailer/Dealer Name

Retailer/Dealer Address

City State/Prov. Zip/Post Code

Retailer/Dealer Phone w/Area Code Date Installed: Month Day Year

TWO-YEAR WARRANTY NOT VALID UNLESS THE SECTION ABOVE IS COMPLETED IN FULL AND RETURNED WITH A COPY OF YOUR RECEIPT.

clarion®
CAR AUDIO & BEYOND

PLEASE PLACE
FIRST-CLASS STAMP
HERE
(Post Office will not deliver
without proper postage.)

CLARION SALES CORPORATION
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